## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-13-17 Relating to Certification of New Motor Vehicle Engines

## CATERPILLAR TRACTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100 and 43102 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That Caterpillar Tractor Company 1977 model-year diesel-powered engines in heavy-duty motor vehicles are certified for the engine family described below:

Engine Family	Engine Size (CID)	Engine Model	Type
12	1099	3408	V8 - Turbocharged- Aftercooled

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the manufacturer affix a decal to the side window to the rear of the driver or, if there is no such window on the driver's side, to the windshield of the motor vehicle.

The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following recommended values:

Engine	HC + NOx	CO	HC	NOx
Family	gm/bhp-hr	gm/bhp-hr	gm/bhp-hr	gm/bhp-hr
12	Not applicable	1	0.2	5.4

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California, this day of December, 1976.

G. C. Hass, Chief

Vehicle Emissions Control Division

Manufacturer Caterpillar Tra Engine Family 12			lo. A-13-17	Page		
Engine Family 12 Engine (CID) 1099  Emission Control Systems Type Inline 6-TCA						
ingine Model Fuel Pump Mfgr. Part Numbe	Mfa.	Maximum Rated HP and RPM	Fuel Rate at Maximum HP	Basic Initial Timing		
3408 Caterpilla 9N2513	4N1251	450 HP @ 2100 RPM 425 HP @ 2100 RPM 400 HP @ 2100 RPM 425 HP @ 1950 RPM 400 HP @ 1950 RPM	191 mm <sup>3</sup> /stroke 181 1bs/hr 179 mm <sup>3</sup> /stroke 170 1bs/hr 169 mm <sup>3</sup> /stroke 160.5 1b/hr 191 mm <sup>3</sup> /stroke 168 1b/hr 179 mm <sup>3</sup> /stroke 157.5 1b/hr	(static)		

Comments

Date of Issue: 121776

Rev. 011077(telecom by Gary Keithley)

Abbreviation

Type

NA - Natural Aspiration

TC - Turbocharged

TCA- Turbocharged and Aftercooled